X11-343X-XX B/5

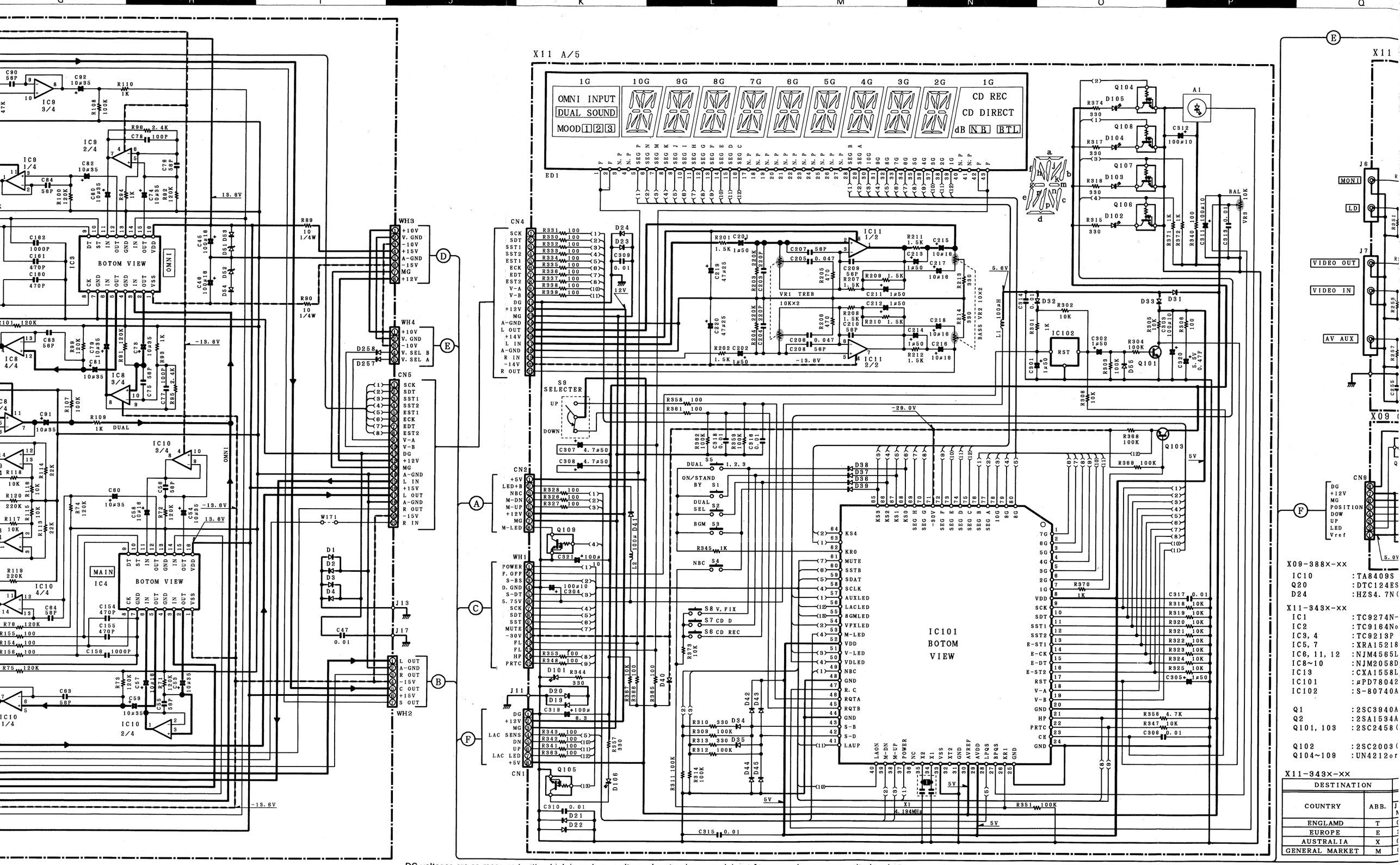
PHONO
TUNER
REC OUT
TAPE
PLAY IN
REC OUT
MD/DAT
PLAY IN
CD/LD
REC OUT
VIDEO
PLAY IN
AV AUX
MAIN OUT
MAIN IN
OMNI

IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10 IC12

BOTOM VIEW

WH2 WH3 WH4 CN5

DC voltages are as measur
ter with no signal input. Val
tions between individual ins



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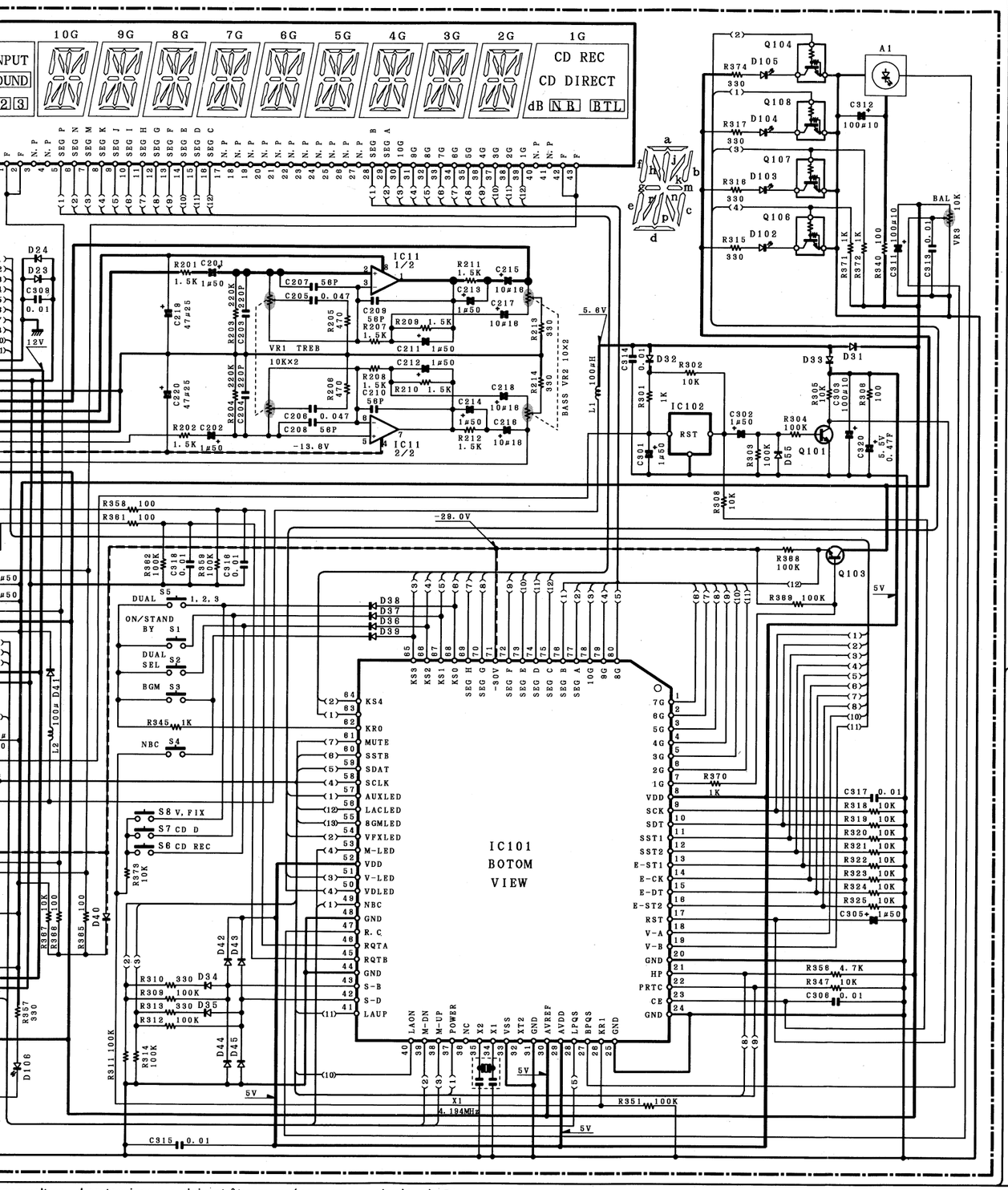
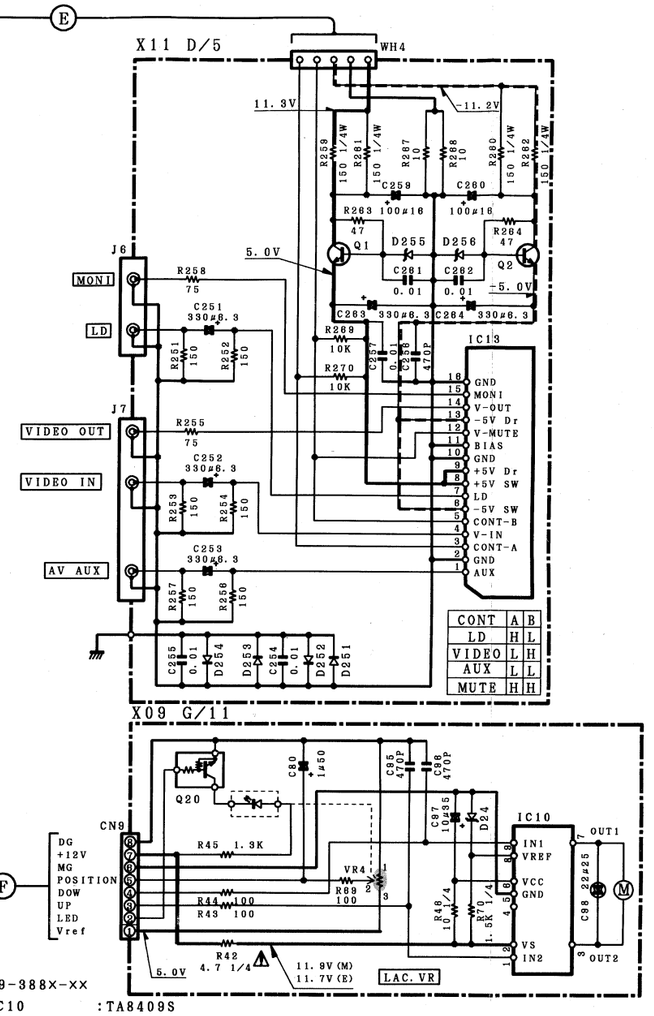
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer parts list). ⚠ Indicates safety critical components. To reduce





X09-388X-xx

IC10	:TA8409S		
Q20	:DTC124ES		
D24	:HZS4.7N(B2) or RD4.7ES(B2)		

X11-343X-xx

IC1	:TC9274N-003	D1~15, 17, 19~25	:HSS104 or 1SS133
IC2	:TC9164N or MJU7313L		
IC3, 4	:TC9213P	41~45, 53~55	
IC5, 7	:XRA15218-DX or NJM4565D-D	251~254, 257, 258	
IC6, 11, 12	:NJM4565L-D	D26	:KBP02ML-6127
IC8~10	:NJM2058D	D40, 255, 256	:HZS5.6N(B2) or RD5.6ES(B2)
IC13	:CXA1558L		
IC101	:μPD78042GF-039	D51, 52	:HZS13N(B2) or RD13ES(B2)
IC102	:S-80740AL or MN1381-R(TA)		
Q1	:2SC3940A(R, S)	ED1	:10-BT-120GK
Q2	:2SA1534A(R, S)		
Q101, 103	:2SC2458(Y, GR) or 2SC3311A(Q, R) [JAPAN MADE]		
Q102	:2SC2003(L, K)		
Q104~109	:UN4212 or DTC124ES		

X11-343X-xx

DESTINATION		UNIT No.			
		A-97		A-87	
COUNTRY	ABB.	JAPAN MADE	SINGPORE MADE	JAPAN MADE	SINGPORE MADE
ENGLAMD	T	0-51	0-52		
EUROPE	E	2-71	2-72		
AUSTRALIA	X	0-71	0-72	0-71	0-72
GENERAL MARKET	M	0-21	0-22	0-21	0-22

SIGNAL LINE
GND LINE

TO X09 CN8 (A) 2/2
TO X09 CN4 (B) 2/2
TO X09 CN1 (C) 2/2
TO X09 CN2 (D) 2/2

2SA1123 2SC2631
2SA1534A 2SC2878
2SC1845 2SC3940A
2SC2003

DTC124ES 2SC1740S
2SA1048 2SC2458
2SA933S

2SC4137

2SB1556
2SD2385

2SB1370

UN4212 2SC3311A
2SA1309A

NJM4565D-D

NJM2058D

BA12003 TC9213P
LC7824

TA8409S

NJM4580L-D

NJU7313L

TC9164N

TA7812S
TA7815S
XRA17812T
XRA17815T

TA79015S

NJM4556L
NJM4565L-D

S-80740AL

ance voltme-due to varia-

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

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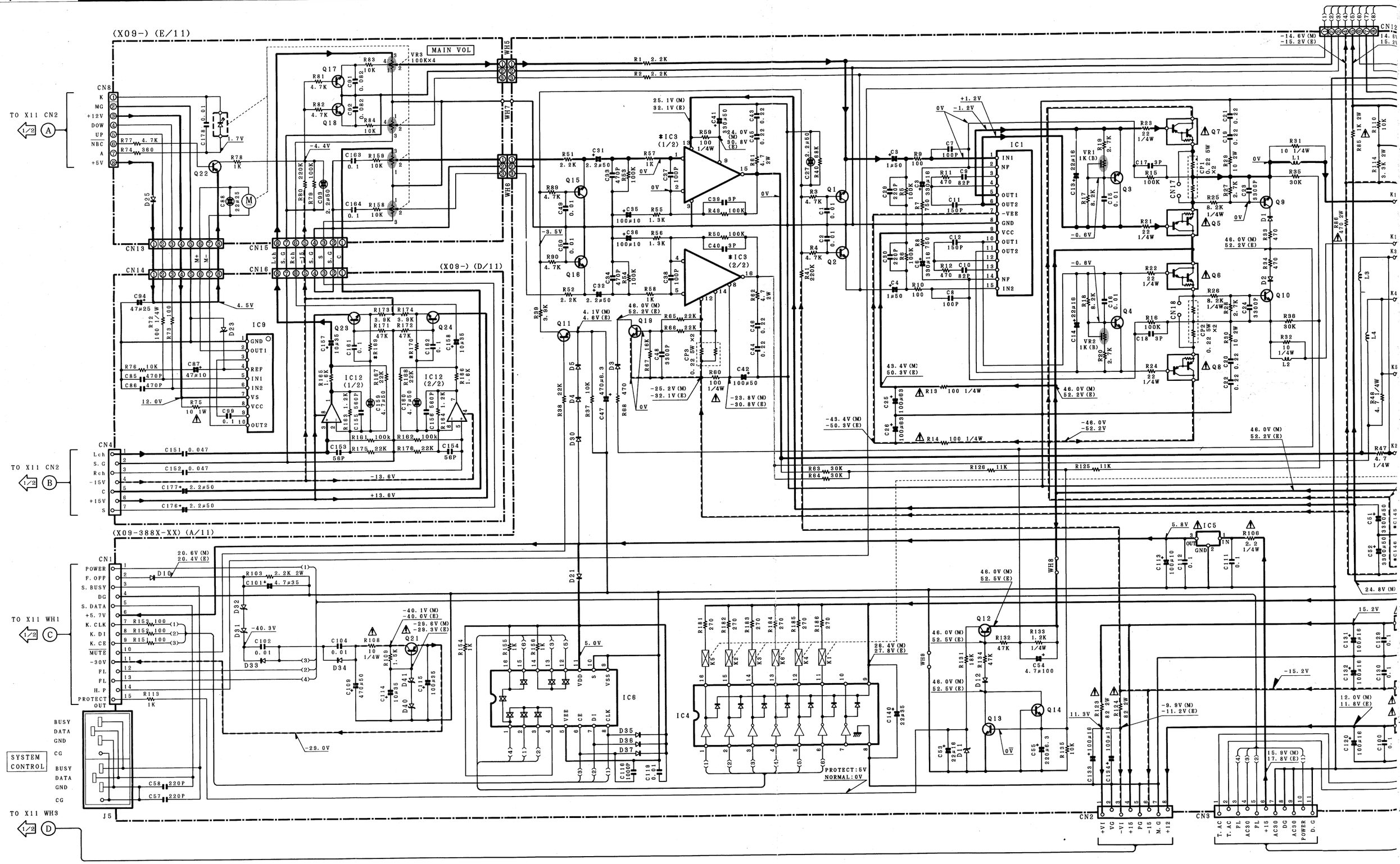
Y08-4860-21

A-87/97

KENWOOD


(X09-) (E/11)
(X09-) (D/11)
(X09-388X-XX) (A/11)
MAIN VOL
VR3 100K×4
CN8
K
MG
+12V
DOW
UP
NBC
A
+5V
TO X11 CN2
1/2 A
CN13
CN14
CN15
CN16
M+
M-
Lch
S.G
Rch
-15
S
C
IC9
GND
OUT1
REF
IN1
IN2
VS
VCC
OUT2
4.5V
12.0V
IC12 (1/2)
IC12 (2/2)
Q17
Q18
Q22
Q23
Q24
CN4
TO X11 CN2
1/2 B
-13.6V
+13.6V
WH5
WH7
WH6
WH8
IC3 (1/2)
IC3 (2/2)
Q15
Q16
Q11
Q19
25.1V (M)
32.1V (E)
34.0V (M)
30.8V (E)
4.1V (M)
4.6V (E)
46.0V (M)
52.2V (E)
-25.2V (M)
-32.1V (E)
-23.8V (M)
-30.8V (E)
IC1
IN1
NF
OUT1
OUT2
-VEE
GND
VCC
OUT1
OUT2
NF
IN2
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
+1.2V
0V
-1.2V
43.4V (M)
50.3V (E)
-43.4V (M)
-50.3V (E)
-46.0V
-52.2V
CN12
-14.6V (M)
-15.2V (E)
24.8V (M)
CN1
POWER
F.OFF
S.BUSY
DG
S.DATA
+5.7V
K.CLK
K.DI
K.CE
MUTE
-30V
FL
FL
H.P
PROTECT OUT
TO X11 WH1
1/2 C
20.6V (M)
20.4V (E)
D10
-40.3V
-40.1V (M)
-40.0V (E)
-29.6V (M)
-29.3V (E)
-29.0V
IC6
VDD
S
VSS
VEE
CE
DI
CLK
5.0V
IC4
PROTECT:5V
NORMAL:0V
26.4V (M)
27.8V (E)
Q12
Q13
Q14
11.3V
-9.9V (M)
-11.2V (E)
IC5
5.8V
15.2V
-15.2V
12.0V (M)
11.8V (E)
15.9V (M)
17.8V (E)
CN2
+V1
VG
-V1
+15
PG
-15
M.G
+12
CN3
T.AC
T.AC
FL
AC30
FL
+15
AC30
DG
AC30
POWER
D.G
SYSTEM CONTROL
BUSY
DATA
GND
CG
J5
TO X11 WH3
1/2 D

X09-
IC1 :STK350-030
IC2 :NJM4565L
IC3 :STK401-071 or STK401-271
IC4 :BA12003
IC5 :TA78057S
IC6 :LC7824
IC7 :XRA17815Tor TA7815S
IC8 :TA79015S or μPC7915AHF
IC9 :BA6209N
IC11 :XRA17812Tor TA7812S
IC12 :NJM4580L-D

Q1, 2, 15~18 :2SC2878 (B)
Q3, 4 :2SC4137
Q5, 6 :2SD2385
Q7, 8 :2SB1556
Q9, 10, 19 :2SC2631 (R, S)
Q11, 22 :2SA1048 (Y, GR) or 2SA1309A (Q, R)
Q12 :2SA1123 (R, S)
Q13, 14, 23, 24 :2SC1845 (E, F)
Q21 :2SB1370

D1~3, 10, 12 :HSS104A or 1SS131
D4, 5, 13~21, 25, 25~30, 35~37 :HSS104 or 1SS133
D6~9 :HZS7.5S (B2) or RD7.5JS (B2)
D11, 23 :HZS4.7N (B2) or RD4.7ES (B2)
D24 :HZS3.9N (B2) or RD3.9ES (B2)
D31, 32 :HZS5.1N (B2) or RD5.1ES (B2)
D33, 34 :S56888
D40, 41 :HZS15N (B2) or RD15ES (B2)
D47 :KBP02ML-6127
D48 :D3SBA20F03 or RBV-402LFA
D49 :D5SBA20F03 or RBV-602LFA

X09-388X-XX

COUNTRY	ABB.	UNIT NO. JAPAN MADE	UNIT NO. SINGPORE MADE	C145. 146	IC3	R169. 170
ENGLAMD	T	2-71 (A-97)	2-72 (A-97)	7500μ63	STK401-271	1K
EUROPE	E	2-71 (A-97)	2-72 (A-97)	7500μ63	STK401-271	1K
AUSTRALIA	X	0-21 (A-97. 87)	0-22 (A-97. 87)	7500μ56	STK401-071	750
GENERAL MARKET	M	0-21 (A-97. 87)	0-22 (A-97. 87)	7500μ56	STK401-071	750

⚠ L07-0810-05 (X TYPE 97/87) (SINGAPORE MADE)
PT1 L07-0812-05 (E TYPE 97) (SINGAPORE MADE)
L07-0811-05 (T TYPE 97) (SINGAPORE MADE)
L07-0898-05 (X TYPE 87) (JAPAN MADE)

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

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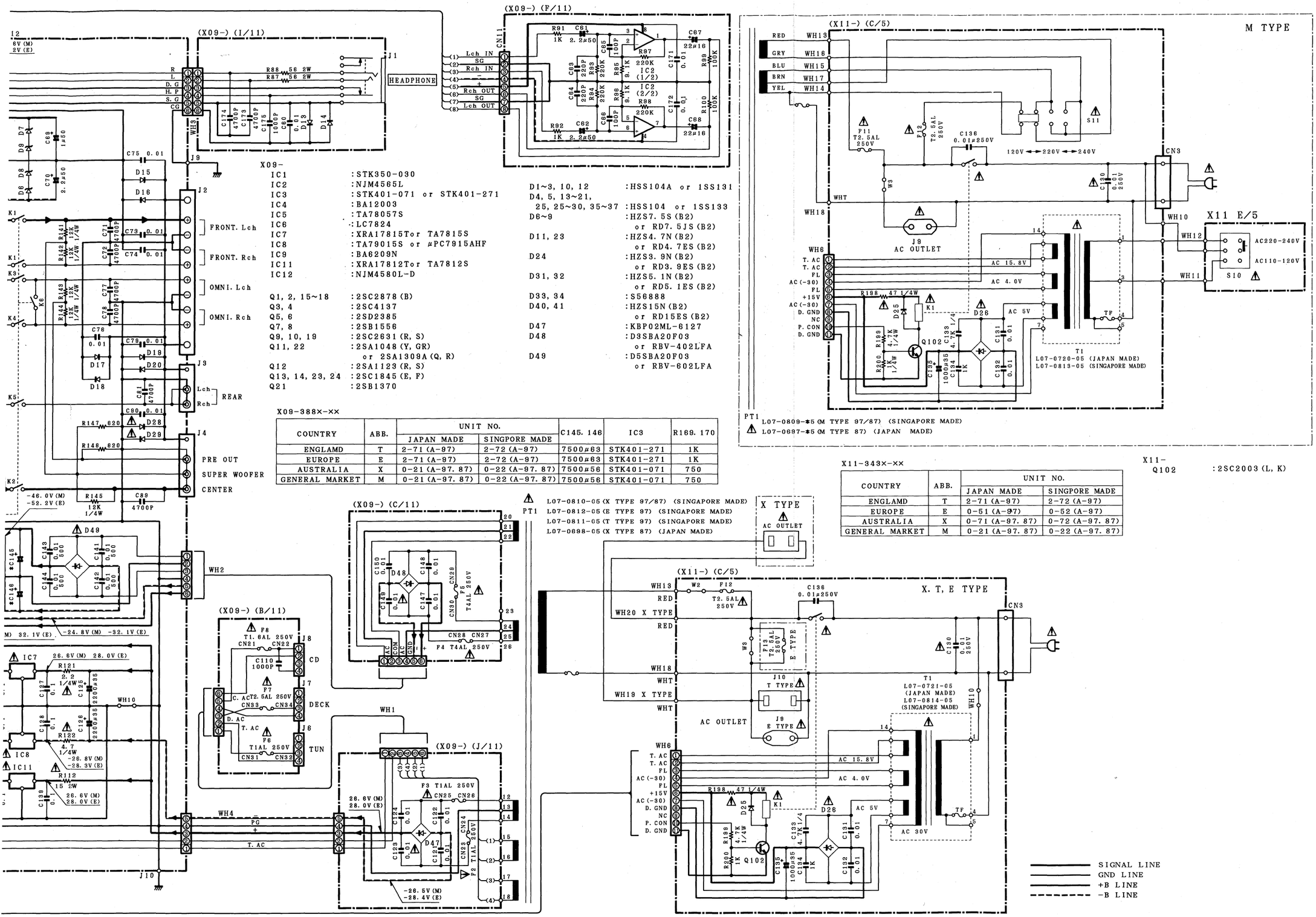
Die angegebenen Gleichsp hochohmigen Spannung gemessen. Dabei schwanke terschieden zwischen einze U. geringfügig.



X09-

IC1	:STK350-030
IC2	:NJM4565L
IC3	:STK401-071 or STK401-271
IC4	:BA12003
IC5	:TA78057S
IC6	:LC7824
IC7	:XRA17815Tor TA7815S
IC8	:TA79015S or μPC7915AHF
IC9	:BA6209N
IC11	:XRA17812Tor TA7812S
IC12	:NJM4580L-D
Q1, 2, 15~18	:2SC2878 (B)
Q3, 4	:2SC4137
Q5, 6	:2SD2385
Q7, 8	:2SB1556
Q9, 10, 19	:2SC2631 (R, S)
Q11, 22	:2SA1048 (Y, GR) or 2SA1309A (Q, R)
Q12	:2SA1123 (R, S)
Q13, 14, 23, 24	:2SC1845 (E, F)
Q21	:2SB1370
D1~3, 10, 12	:HSS104A or 1SS131
D4, 5, 13~21, 25, 25~30, 35~37	:HSS104 or 1SS133
D6~9	:HZS7.5S (B2) or RD7.5JS (B2)
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X09-388×-××

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EUROPE	E	2-71 (A-97)	2-72 (A-97)	7500μ63	STK401-271	1K
AUSTRALIA	X	0-21 (A-97. 87)	0-22 (A-97. 87)	7500μ56	STK401-071	750
GENERAL MARKET	M	0-21 (A-97. 87)	0-22 (A-97. 87)	7500μ56	STK401-071	750

PT1
⚠ L07-0809-⁂5 (M TYPE 97/87) (SINGAPORE MADE)
⚠ L07-0697-⁂5 (M TYPE 87) (JAPAN MADE)

PT1
⚠ L07-0810-05 (X TYPE 97/87) (SINGAPORE MADE)
L07-0812-05 (E TYPE 97) (SINGAPORE MADE)
L07-0811-05 (T TYPE 97) (SINGAPORE MADE)
L07-0898-05 (X TYPE 87) (JAPAN MADE)

X11-343×-××

COUNTRY	ABB.	UNIT NO.	
		JAPAN MADE	SINGPORE MADE
ENGLAMD	T	2-71 (A-97)	2-72 (A-97)
EUROPE	E	0-51 (A-97)	0-52 (A-97)
AUSTRALIA	X	0-71 (A-97. 87)	0-72 (A-97. 87)
GENERAL MARKET	M	0-21 (A-97. 87)	0-22 (A-97. 87)

X11-
Q102 :2SC2003 (L, K)

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Y08-4860-21

A-87/97
KENWOOD